

HIGH SPEED OPTICAL ELEMENT SWITCHING MECHANISM

ABSTRACT

A switch assembly includes an arm assembly, a primary spring, one or more secondary springs, and a latch assembly. The arm assembly is configured to rotate between at least a first rotational position and a second rotational position. The primary spring is coupled to the arm assembly and is configured to bias the arm assembly toward a third rotational position that is located between the first and second rotational positions. Each secondary spring is disposed in the switch assembly and is configured to selectively bias the arm assembly toward the third rotational position when the arm assembly reaches a predetermined rotational distance from either the first or second rotational positions. The latch assembly is disposed in the switch assembly and is operable to selectively hold the arm assembly in either the first or second rotational positions, and to selectively release the arm assembly from the rotational position in which it is holding the arm assembly.